STRONTIUM PEROXIDE CATALYZED OXYGEN GENERATING COMPOSITIONS

ABSTRACT OF THE DISCLOSURE

The oxygen generating compositions are formed from a metal powder as a fuel, strontium peroxide as a chlorine suppressant, a catalyst, a reaction rate modifier, and an oxygen source selected from the group consisting of alkali metal chlorates, alkali metal perchlorates, and mixtures thereof. The oxygen generating compositions can optionally also further comprise a transition metal oxide catalyst, and can optionally further include a binder as a pressing aid for forming an oxygen generating oxygen generating block or core. The oxygen generating compositions can be formed from zero to about 15% by weight of metal powder as a fuel, about 0.1-20% by weight strontium peroxide, from zero to about 15% by weight of a transition metal oxide catalyst, from zero to about 5% of an optional binder, and the remainder of an oxygen source selected from the group consisting of alkali metal chlorates, alkali metal perchlorates, and mixtures thereof.